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# Korea, Republic of Oilseeds and Products Annual 2006

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Report Highlights: Korea is expected to import 1.3 MMT of soybeans in MY 2006/7 and MY 2005/06. A comparison of Korean soybean imports during the first three months of MY 2005/06 (Oct.-Dec., 2005) indicates a sharp decrease in U.S. soybean exports to Korea from the previous year. In contrast, Brazilian exports have more than doubled compared to the same period during the previous year.

Includes PSD Changes: Yes Includes Trade Matrix: Yes Annual Report Seoul [KS1]

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#### SECTION I. SITUATION AND OUTLOOK

The Bank of Korea forecasts that the potential GDP growth rate for 2006 is 5 percent compared to 4 percent in 2005 as a result of additional consumer spending. Consumer price increases are expected to remain in the three percent range. The unemployment rate is likely to hover in the mid-three percent range. The current account surplus is expected to reach approximately \$16 billion in 2006 because the goods account surplus will shrink somewhat while the service account deficit will grow in comparison to last year. Korean economists and market analysts expect that Korea's potential growth rate stands at 4.2 - 4.3 percent. The Korean won (KRW) strengthened to KRW 1,024.24 per U.S. dollar in CY 2005 from KRW 1,146.19 per U.S. dollar in CY 2004.

## **OILSEEDS**

Production: In MY 2006/07, Korea's soybean area is expected to decrease slightly to a level of 100,000 HA. Area is expected to decrease slightly in response to less attractive farm gate prices for soybeans. Soybean production is forecast at 150,000 metric tons (MT) in MY 2006/07 assuming average yields. In MY 2005/06, increased soybean area and record yields resulted in increased soybean production to 183,000 MT (from 139,000 MT in MY 2004/05).

Since 2002, the Ministry of Agriculture and Forestry (MAF) has maintained a rice area reduction program with favorable government purchase prices for soybeans grown on former rice paddies. During MY 2005/06, MAF purchased 9,200 MT of soybean cultivated in converted rice paddies at KRW 4,204/kg (equivalent to US\$4.20/kg). MAF also purchased 3,000 MT of soybeans grown in upland production areas at KRW 3,017/kg (equivalent to US\$3.00/kg). Purchase prices under the rice area reduction program are expected to remain at the same levels in MY 2006/07. Purchasing prices for soybeans grown on former rice area and upland area are expected to be equalized in MY 2007/08.

Consumption: Total soybean consumption is forecast to increase slightly in MY 2006/07 to a level of 1.46 MMT comprised primarily of 1 MMT for crushing and .42 MMT for food use. Crushing use is expected to remain unchanged in MY 2006/07 from previous year levels while food use is expected to increase 20,000 MT. Lack of growth in crushing demand reflects the growing competition Korean crushers face from imported South American oil and meal from Brazil and India.

Stocks: Ending stocks of soybeans are expected to contract slightly from .16 MMT in MY 2005/06 to .15 MMT in MY 2006/07.

Trade: Soybean imports are expected to remain at 1.3 MMT in MY 2006/07 reflecting stable demand from the crushing sector. The United States is projected to export .8 MMT of soybeans to Korea in both MY 2005/06 and MY 2006/07. U.S. soybean exports to Korea are dependent on the level of competition from Brazil. Brazil's share of the Korean soybean market increased from 15 percent in MY 2003/04 to 28 percent in MY 2004/05. Korean crushers perceive Brazilian soybeans to be competitive with U.S. soybeans for at least six months after the Brazilian harvest. Korean crushers claim that Brazilian soybeans purchased during the six month period following harvest have higher oil and protein content than U.S. soybeans available during the same period.

In the first three months of MY 2005/06 (Oct.-Dec. 2005), soybean imports were 29 percent higher than the same period of the previous year. The increased pace of imports during the first three months of MY 2005/06 reflects traders' correct assessment that the import tariff for soybeans would increase in CY 2006. Consequently, the initial pace of imports in MY 2005/06 is not expected to be maintained throughout the entire marketing year. The in-quota tariff for soybeans for crushing increased from zero in 2005 to 1 percent in 2006.

#### **NON-GMO SOYBEANS**

The Korea Agro-Fishery Trade Corporation (abbreviated "aT"), a state trading company, is expected to continue to buy U.S. No. 1 non-biotech-enhanced soybeans for food processing through an identity preserved (IP) certification system under a tariff rate quota (TRQ). "aT" plans to import non-GMO soybean to meet steady demand from manufacturers of soybean curd, soy sauce, soy paste, and soy-based seasonings under the 2006 soybean TRQ of 270,000 MT. About 10,000 MT of soybeans for sprouting purpose are also included in the TRQ. China has been the major supplier of soybeans for sprouting.

Private importers are expected to continue importing approximately 60,000 MT of soybeans for food purposes mainly from China. Chinese soybeans imported by private sector buyers are subject to the out-of-quota import tariff of 487 percent or Korean Won 956/kg, whichever is greater. Seventy percent of the soybeans imported from China are used for sprouting, 20 percent are used to make soybean curd, and the remaining ten percent are used to make soybean-based seasonings.

Poolmoowon, a leading organic food processor in Korea, has produced soybean-curd products using local soybeans and Chinese organic soybeans. The company imported 3,000 MT of organic soybeans from China produced under contract.

### **MEAL**

Production: The production of soybean meal in MY 2006/07 is expected to remain at .8 MMT as in MY 2005/06 reflecting the stable level of crushing. The domestic crushing industry has shifted to production of dehulled soybean meal to meet demand from feed millers. Crushers report that dehulled soybean meal containing 47.5 percent of crude protein (minimum) accounted for 25 percent of locally crushed soybean meal production in 2005. The largest domestic crushing company, which produces 45 percent of all domestically produced soybean meal, has been producing only dehulled meal since August 2005.

Consumption: Feed demand for soybean meal has room for growth given the low soybean meal-inclusion rate in animal rations relative to levels animal nutritionists generally recommend. Compound feed production in MY 2006/07 is projected to decrease slightly in response to slight reductions in cattle and swine inventories. Poultry numbers are expected to remain stable. The projected decrease in compound feed production is expected to be offset by improvement in the soybean meal inclusion rate in compound feed. As a result, soybean meal consumption is expected to increase marginally to 2.3 MMT in MY 2006/07. Korean feed millers claim to prefer soybean meal to other oil meals because the supply of soybean meal has been more reliable. The

rapeseed meal inclusion rate will remain at around 2 percent of total compound feed production due to a limited supply and demand.

Trade: In MY 2006/07, Korea is forecast to import 1.5 MMT of soybean meal for feed purposes; a 50,000 MT increase from the previous year. Increased imports reflect an increase in the soybean inclusion rate in compound feed. Brazil has dominated the Korean soybean meal market during MY 2005/06. U.S. soybean meal exports are expected to amount to only 5,000 MT in MY 2005/06 and MY 2006/07. Imports of U.S. soybean meal are expected to occur via containerized shipment. Feed millers recognize the value of U.S. dehulled soybean meal in rations for swine, poultry and aquaculture. Continued market development will encourage feed millers to opt for U.S. soybean meal when U.S. prices are attractive vis-à-vis South American meals.

#### OIL

Production: In MY 2006/07, oil production is forecast to remain unchanged from MY 2005/06 at 180,000 MT. Narrow crushing margins are expected to continue through MY 2006/07 and limit crusher interest in expanding oil production.

Consumption: Total soybean oil consumption in MY 2006/07 is expected to increase to 428,000 MT from 418,000 MT in MY 2005/06. MY 2006/07 consumption is expected to be comprised of 410,000 MT of food use and 18,000 MT of industrial use. Although domestically crushed oil has dominated the Korean market for vegetable oil, it is not competitive for use in restaurants and processing of oil-based foods. Utilization of soybean oil has been very limited in processing of oil-based foods because of technical difficulties in further processing RBD soybean oil into the oil suitable for oil-based food processing. The functionality and price of palm oil has met demand in this area better than soybean oil.

Growing concerns among the Korean public about trans-fat from hydrogenated soybean oil have dampened demand for soybean oil for food processing relative to substitutes. Implementation of mandatory labeling of for trans-fat content in the United States focused attention on the issue in Korea. Increasing concerns about trans-fat are expected to eventually result in similar trans-fat labeling regulations in Korea and, in turn, a further reduction in consumption of products containing hydrogenated soybean oil.

U.S. Soybean Export Council (USSEC) market development efforts can assist the Korean food industry and crushers in adapting their production to the new environment resulting from increased consumer awareness of trans-fat. Among other activities, USSEC provision of technical and marketing assistance can help the Korean industry develop trans-fat free soybean oil for oil-based food processing and expand the market for their domestically crushed soybean oil derived from imported U.S. soybeans.

Trade: MY 2006/07 soybean oil imports are projected at 250,000 MT as are MY 2005/06 imports. Imports of soybean oil have increased to more than half of total oil demand in recent years. Soybean oil imported from South America has been competitive with domestically produced soybean oil derived from imported soybeans. Food processors that use soybean oil as an input and restaurants have come to rely heavily on imported soybean oil.

In MY 2004/05, exports of U.S. soybean oil to Korea increased to 14,340 MT; a 33 percent increase from the previous marketing year. Although importers are reportedly willing to pay a premium of nearly \$10/MT for U.S. soybean vis-à-vis Argentine soybean oil, the current price spread between U.S. and South American soybean oil has prompted Korean refineries to purchase South American soybean oil in MY 2005/06.

In MY 2004/05, palm oil imports increased to 227,435 MT, up 7 percent from a year earlier. The functionality and price of palm oil meets demand for processing of foods within the instant noodle and confectionary sectors. Consequently, imports of palm oil have been increasing along with growth in the Korean food industry. Palm oil imports are expected to continue to grow moderately. Palm stearin has a steady demand from the feed and soap industries.

#### **TARIFFS**

A 1.4 MMT tariff rate quota (TRQ) was established for imports of soybeans for crushing in 2006. In contrast to the 2005 TRQ, the in-quota rate was increase from zero to one percent. The in-quota tariff for the 2006 TRQ for soybeans for food processing remains unchanged at five percent for 185,787 MT. Out-of-quota soybeans will be assessed a tariff of 487 percent or Korean won 956/kg, whichever is greater. Soybean meal, soybean oil, and cottonseed oil tariff rates in 2006 remain in line with the terms of a 1993 U.S./Korean bilateral agreement.

TRQ's for rapeseed oil imports do not have a quantitative limitation. The in-quota tariff rate for crude rapeseed oil has been reduced 2 percent to 8 percent in 2006. The in-quota tariff rate for refined rapeseed oil has been reduced from 30 percent in 2005 to 10 percent in 2006. (See the tables below for details.)

### MARKET OPPORTUNITIES

Over the next three to five years, the oilseed market is expected to be stagnant due to narrow crushing margins to local crushers who has suffered from less competitive price of locally processed soybean products than imported soybean products. The economic recovery currently underway is expected to support strengthening demand for food and feed grade oilseeds as consumer preference for, and consumption of, oilseed-based products and animal protein grow. Despite the increased domestic production of soybeans in the course of rice area reduction programs, oilseed imports will remain necessary because domestic production will always be insufficient to meet market requirements for both feed and food quality beans. Important trends that could affect U.S. exports include changing consumer perceptions of biotechnology and products derived from genetically enhanced ingredients; changes to oilseed, meal and vegetable oil tariffs; the availability of affordable commercial credit; and market development efforts.

## SECTION II. STATISTICAL TABLES OF OILSEED

## Soybean, Oilseed PS&D

## **PSD Table**

Country	Korea,	Republi	ic of				
Commodity	Oilseed	l, Soybe	ean		(1000 HA)	(1000 MT)	
•		Revised	2005	Estimate	2006	Forecast	UOM
USE	DA Official [	Estimate[N	A Official [	Estimate[N	A Official [	Estimate[I	New]
Market Year Begin		10-2004		10-2005		10-2006	MM/YYYY
Area Planted	80	85	0	105	0	100	(1000 HA)
Area Harvested	85	85	86	105	0	100	(1000 HA)
Beginning Stocks	118	119	100	120	100	160	(1000 MT)
Production	139	139	125	183	0	150	(1000 MT)
MY Imports	1240	1240	1300	1300	0	1300	(1000 MT)
MY Imp. from U.S.	0	827	0	800	0		(1000 MT)
MY Imp. from the EC	0	0	0	0	0	0	(1000 MT)
TOTAL SUPPLY	1497	1498	1525	1603	100	1610	(1000 MT)
MY Exports	0	0	0	0	0	0	(1000 MT)
MY Exp. to the EC	0	0	0	0	0	0	(1000 MT)
Crush Dom. Consumption	997	975	1025	1000	0	1000	(1000 MT)
Food Use Dom. Consump	357	360	360	400	0	420	(1000 MT)
Feed,Seed,Waste Dm.Cr	43	43	40	43	0	43	(1000 MT)
TOTAL Dom. Consumption	1397	1378	1425	1443	0	1463	(1000 MT)
Ending Stocks	100	120	100	160	0	147	(1000 MT)
TOTAL DISTRIBUTION	1497	1498	1525	1603	0	1610	(1000 MT)
Calendar Year Imports	0	1330	0	1300	0	0	(1000 MT)
Calendar Yr Imp. U.S.	0	791	0	800	0	0	(1000 MT)
Calendar Year Exports	0	0	0	0	0	0	(1000 MT)
Calndr Yr Exp. to U.S.	0	0	0	0	0	0	(1000 MT)

## **Soybean Import Trade Matrix**

# **Import Trade Matrix**

**Country** Korea, Republic of **Commodit** Oilseed. Soybean

Commodit	Chocca	, Coybcair	
Time Period	Oct/Sep	Units:	1000MT
Imports for:	2003		2004
U.S.	1101	U.S.	827
Others		Others	
Brazil		Brazil	343
China	64	China	69
Total for Others	266		412
			412
Others not Liste			1
Grand Total	1368		1240

KOREA: Korean Economic Forecast for 2006				
Item	2005a/	2006b/		
GDP (%)	4	5		
Current Account (billion U.S.\$)	16.6	16		
Consumer Prices (%)	2.8	3.0		
Unemployment (%)	3.7	3.6		

A/ Estimate B/ Forecast

Source: Bank of Korea

KOREA: Oilseed Area and Production (Hectares and Metric tons)					
Crops	200	04	20	05	
	Area	Production	Area	Production	
Soybean	85,270	135,570	105,421	183,338	
Rapeseed	1,148	1,392	1,100a/	1400a/	
Peanuts b/	3,454	8,257	3,352	8000	
Sesame	31,843	20,863	33,971	23,461	
Perilla	24,368	18,346	24,000a/	18,300a/	
Total	146,083	184,428	167,844a/	234,499a/	

a/ FAS/Seoul estimates.

b/ In-shell

Source: Ministry of Agriculture and Forestry

	KOREA: Soybean Production					
Crop Year	Area (HA)	Yield (KG/HA)	Production (MT)			
1985	155,964	1,500	233,863			
1990	152,265	1,529	232,786			
1995	105,035	1,520	159,640			
1999	87,026	1,334	116,120			
2000	86,176	1,314	113,196			
2001	78,415	1,501	117,723			
2002	80,804	1,423	115,024			
2003	80,447	1,306	105,089			
2004	85,270	1,625	138,570			
2005	105,421	1,739	183,338			

Source: Ministry of Agriculture and Forestry

	KOREA: Government Purchases of Soybeans (MT, KRW/Kg)							
Soybeans	20	002		003		004	20	005
	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity
Grown in rice paddy area	4,770	2,526	4,770	5,438	4,770	10,462	4,204	9200
Grown in upland area	2,407	2,500	2,407	none	2,407	none	3,017	3,000

Source: Ministry of Agriculture and Forestry

KOREA:	Soybean Farm Gate Price I	ndex			
Year and Months	Price Index				
2000	10	00			
2001	91	1.9			
2002	94	1.8			
2003	10	9.7			
2004	12	25			
Month	2004	2005			
January	123	123.2			
February	127.5	124.0			
March	131.9 172.2				
April	144.9 128.3				
May	150.2 126.7				
June	162.1	123.5			
July	156.2	121.5			
August	143.9	120.8			
September	135.6 119.0				
October	123.6 108.2				
November	122.5	99.4			
December	121.7	na			

Source: National Livestock Cooperative Federation (NACF)

	KOREA: Soybean Imports for OctDec. by Origin					
	(Unit: MT)					
Soybean for Crush	ing					
MY2005/06	USA	Brazil	China	Others	Total	
Oct. 2005	0	79,573	0	0	79,573	
Nov	1,500	57,090	0	0	58,650	
Dec	87,813	56,313	0	0	144,126	
Subtotal	89,313	192,976	0	60	282,349	
MY2004/05 a/	111,450	87,800	0	0	199,250	
Soybean for Food						
MY2005/06	USA	Brazil	China	Others	Total	
Oct. 2005	24,321	4,300	8,488	18	37,127	
Nov	0	3,386	10,749	18	14,153	
Dec	51,726	3,260	12,015	9	67,047	
Subtotal	76,084	10,946	31,252	45	118,327	
MY2004/05 a/	88,853	0	20,945	1,500	111,298	
Total			<u>.</u>	<u>.</u>		
MY2005/06	USA	Brazil	China	Others	Total	
Oct. 2005	24,321	83,873	8,488	18	116,700	
Nov	1,500	60,476	10,749	78	72,803	
Dec	139,576	59,573	12,015	9	211,173	
Subtotal	165,397	203,922	31,252	105	400,676	
MY2004/05 a/	200,303	87,800	20,945	1,500	310,548	

a/ October – December 2004

KOREA: Distribution, by State Trading Entities, of Soybeans for Food						
		acturing				
	(Calendar Yea	ar, Metric Ton)				
Item\Year	Item\Year         2003         2004         2005					
Soybean Curd	107,665	131,435	125,274			
Soy Sauce	40,995	45,005	44,500			
Soy Paste	4,287	4,700	3,824			
Soy Milk	30,461	28,000	26,478			
Others 1/ 472 420 1,360						
Sub. Total	183,880	209,555	201,436			
By product 2/	30,158	31,000	30,930			
Grand Total	214,038	240,555	232,366			

Note: Quantity is on the basis of cleaned soybeans.

1/ Government, military employees and others

2/ Feed

Source: Korea Agro-Fishery Trade Corporation (aT)

K	KOREA: Soybean Consumption for Crushing					
	(Metric Ton)					
Month	MY 02/03	MY 03/04	MY 04/05	MY 05/06		
October	110,113	97,863	69,135	66,300		
November	108,508	115,975	87,037	73,100		
December	111,707	117,442	75,014	65,700		
January	108,673	84,334	76,609	na		
February	102,386	98,243	83,257	na		
March	110,162	100,503	83,880	na		
April	106,423	93,969	82,606	na		
May	95,080	75,925	89,274	na		
June	73,613	78,691	79,455	na		
July	99,905	84,006	83,000	na		
August	100,687	75,157	89,400	na		
September	83,880	66,811	76,700	na		
Total	1,211,137	1,088,919	975,367	205,100		

Source: Korea Soybean Processing Association

KOREA: Soybean Crushing Capacity (As of January 2005)					
Soybean Crusher Capacity (MT/day) Location					
Shin Dong Bang Corp 1,150 Inchon					
CJ Corp 1,850 Inchon					
Samyang Fat and Oil Co. 700 Inchon					
Total	3,700				

Note: Day=24 hours processing basis for 330 days

Source: Soybean Crushing Industry

KOREA: Oilseed Imports (Metric Tons, \$1,000)						
	•	003/04	MY 2004/05			
	Volume	Value	Volume	Value		
Soybean	1,368,032	480,522	1,240,095	380,363		
Peanuts, in shell	612	148	637	184		
Peanut, shelled	2,841	929	3,151	1,248		
Linseed	75	37	134	128		
Rapeseed	6	14	742	254		
Sunflower Seed	1,233	1,296	1,087	1,392		
Cottonseed	106,250	21,855	127,183	24,047		
Castor Bean	610	88	107	50		
Sesame Seed	75,119	77,510	68,757	64,951		
Mustard Seed	1,857	1,039	2,516	1,390		
Safflower Seed	572	205	381	152		
Perilla Seed	22,969	11,494	25,891	12,305		
Total	1,580,176	595,137	1,470,681	486,464		

Source: Korea Customs Service

KOREA: Soybean Powder Imports (MT, \$1,000)							
Country	20	04	20	05			
	Quantity	Value	Quantity	Value			
U. S.A	1,146	613	1,022	535			
China	12,270	6,370	17,089	8,009			
Australia	9	7	21	21			
Japan	0	0	0	0			
Russia	0	0	69	24			
Ukraine	251	123	0	0			
Myanmar	18	8	0	0			
Total	13,162	7,121	18,202	8,591			

	KOREA: Tariff Schedule For Oilseeds							
(Percent)								
Commodity	H.S. Code	2004	2005	2006				
Soybean 1/	1201.00.0000	5(0)	5(0)	5(1)				
Peanuts, in Shell 2/	1202.10.0000	40	40	40				
Peanuts, Shelled 2/	1202.20.0000	24	24	24				
Copra	1203.00.0000	3	3	3				
Linseed	1204.00.0000	3	3	3				
Rapeseed 3/	1205.00.0000	20(10)	20(10)	20(10)				
Sunflower Seed	1206.00.0000	25	25	25				
Cottonseed	1207.20.0000	3	3	3				
Castor Beans	1207.30.0000	3	3	3				
Sesame Seed 4/	1207.40.0000	40	40	40				
Mustard Seed	1207.50.0000	3	3	3				
Safflower Seed	1207.60.0000	3	3	3				

Note: The Seed Industry Act restricts imports of listed commodities for planting seed purposes.

- 1/ The number in parenthesis in 2006 is assessed on the first 1.414 MMT of soybeans imported for crushing purposes. An applied duty of 5 percent is applied for 185,787 MT of food grade soybeans imported by Korea Agro-Fishery Trade Corporation (abbreviated as "aT") under the tariff rate quota. Soybeans imported out-of-quota by private importers are assessed a tariff of 487 percent or Korean won 956/Kg, whichever is greater.
- 2/ The in-quota amount is 4,907.3 MT on a shelled basis. Peanuts imported out-of-quota are assessed a tariff of 230.5 percent.
- 3/ The number in parenthesis is the applied (temporary) duty on all rapeseed imported.
- 4/ The in-quota amount is 6,731 MT. Sesame imported out-of-quota is assessed a tariff of 630 percent or Korean won 6,660/Kg, whichever is greater.

Source: Korea Customs Research Institute, Tariff Schedules of Korea.

## **SECTION II. STATISTICAL TABLES OF MEALS**

## Soybean Meal PS&D

## **PSD Table**

Country Korea, Republic of Meal Soybean

Commodity	lity Meal, Soybean			(1000 MT)(PERCENT)			
	2004	Revised	2005	Estimate	2006	Forecast	UOM
USI	DA Official [	Estimate[N	A Official [	Estimate[N/	Official [	Estimate[N	lew]
Market Year Begin		10-2004		10-2005		10-2006	MM/YYYY
Crush	997	975	1025	1000	0	1000	(1000 MT)
Extr. Rate, 999.9999	0.787362	0.791795	0.787317	0.792	0	0.792	(PERCENT)
Beginning Stocks	200	198	220	200	230	200	(1000 MT)
Production	785	772	807	792	0	792	(1000 MT)
MY Imports	1462	1444	1510	1450	0	1500	(1000 MT)
MY Imp. from U.S.	0	2	0	5	0	5	(1000 MT)
MY Imp. from the EC	0	0	0	0	0	0	(1000 MT)
TOTAL SUPPLY	2447	2414	2537	2442	230	2492	(1000 MT)
MY Exports	0	0	0	0	0	0	(1000 MT)
MY Exp. to the EC	0	0	0	0	0	0	(1000 MT)
Industrial Dom. Consum	0	0	0	0	0	0	(1000 MT)
Food Use Dom. Consump	50	25	52	25	0	25	(1000 MT)
Feed Waste Dom. Consu	2177	2189	2255	2217	0	2267	(1000 MT)
TOTAL Dom. Consumption	2227	2214	2307	2242	0	2292	(1000 MT)
Ending Stocks	220	200	230	200	0	200	(1000 MT)
TOTAL DISTRIBUTION	2447	2414	2537	2442	0	2492	(1000 MT)
Calendar Year Imports	0	1490	0	1500	0	1500	(1000 MT)
Calendar Yr Imp. U.S.	0	4	0	5	0	5	(1000 MT)
Calendar Year Exports	0	0	0	0	0	0	(1000 MT)
Calndr Yr Exp. to U.S.	0	0	0	0	0	0	(1000 MT)

## Soybean Meal Import Trade Matrix

# **Import Trade Matrix**

**Country** Korea, Republic of **Commodit** Meal. Sovbean

Commodit	Commodit Meal, Soybean							
Time Period	Oct/Sep	Units:	1000MT					
Imports for:	2003		2004					
U.S.	1	U.S.	2					
Others		Others						
Brazil	431	Brazil	911					
India	726	India	153					
Argentina	102	Argentina	359					
China	21	China	14					
Total for Others			1437					
Others not Liste	12		5					
Grand Total	1293		1444					

## **PSD Table**

Country Korea, Republic of Commodity Meal, Rapeseed

Commodity	Meal, R	eal, Rapeseed			(1000 MT)(PERCENT)			
	2004	Revised	2005	Estimate	2006	Forecast	UOM	
US	DA Official [	Estimate[I)A	Official [	Estimate[NA	Official [	Estimate[f	New]	
Market Year Begin		10-2004		10-2005		10-2006	MM/YYYY	
Crush	3	1	2	1	0	1	(1000 MT)	
Extr. Rate, 999.9999	0.333333	1	0.5	1	0		(PERCENT)	
Beginning Stocks	35	67	43	45	43		(1000 MT)	
Production	1	1	1	1	0	1	(1000 MT)	
MY Imports	292	292	315	300	0	300	(1000 MT)	
MY Imp. from U.S.	0	0	0	0	0	0	(1000 MT)	
MY Imp. from the EC	0	0	0	0	0	0	(1000 MT)	
TOTAL SUPPLY	328	360	359	346	43	332	(1000 MT)	
MY Exports	0	0	0	0	0	0	(1000 MT)	
MY Exp. to the EC	0	0	0	0	0	0	(1000 MT)	
Industrial Dom. Consum		30	45	30	0		(1000 MT)	
Food Use Dom. Consum	k 0	0	0	0	0		(1000 MT)	
Feed Waste Dom. Consu		285	271	285	0		(1000 MT)	
TOTAL Dom. Consumpt		315	316	315	0		(1000 MT)	
Ending Stocks	43	45	43	31	0		(1000 MT)	
TOTAL DISTRIBUTION	328	360	359	346	0		(1000 MT)	
Calendar Year Imports	0	290	0	300	0	300	(1000 MT)	
Calendar Yr Imp. U.S.	0	0	0	0	0		(1000 MT)	
Calendar Year Exports	0	0	0	0	0		(1000 MT)	
Calndr Yr Exp. to U.S.	0	0	0	0	0	0	(1000 MT)	

## **Rapeseed Meal Import Trade Matrix**

# **Import Trade Matrix**

**Country** Korea, Republic of **Commodit** Meal, Rapeseed

Time Period	Oct/Sep	Units:	1000MT
Imports for:	2003		2004
U.S.	0	U.S.	0
Others		Others	
India	277	India	274
China	30	China	10
Total for Others			284
Others not Liste	2		8
Grand Total	309		292

	KOREA: Soybean Meal Production								
	(Metric Ton)								
Month	MY 03/04	MY 03/04 MY 04/05							
October	74,166	52,007	50,275						
November	87,160	63,602	55,745						
December	87,760	60,863	49,249						
January	64,761	58,126	Na						
February	74,277	63,673	Na						
March	76,996	63,324	Na						
April	71,085	62,109	Na						
May	57,934	67,986	Na						
June	59,835	60,931	Na						
July	64,305	63,288	Na						
August	56,856	67,821	Na						
September	50,078	59,080	Na						
Total	825,212	742,808	155,269						
Extraction Rate	75.78%	76.16%	75.70%						

Source: Korea Soybean Processing Association

KOREA: Feed Ingredients use							
Items	MY 200	03/04	MY 2004/05				
	1,000 MT	Percent	1,000 MT	Percent			
Total Grains and Grain Substitution	9,831	65.8	9,896	65.5			
- Wheat	859	5.8	1,153	7.6			
- Corn	6,614	44.3	6,619	43.8			
- Others	2,358	15.7	2,124	14.1			
Total Vegetable Protein	3,398	22.8	3,510	23.2			
- Soybean Meal	2,052	13.7	2,116	14.0			
- Rapeseed Meal	283	1.9	285	1.9			
- Cottonseed Meal	45	0.3	53	0.4			
- Palm Kernel Meal	310	2.1	343	2.3			
Copra Meal	374	2.5	397	2.6			
- Others	334	2.3	316	2.0			
Total Animal Protein	143	1.0	129	0.9			
- Fish meal	43	0.3	41	0.3			
-Meat & Bone Meal	23	0.2	19	0.1			
-Others	77	0.5	69	0.5			
Total Others	1,564	10.4	1,575	10.4			
TOTAL COMPOUND FEED	14,936	100	15,110	100			

Source: Korea Feed Association

KOREA: Soybean Meal Inclusion Rate for Compound Feed							
Animal Type	MY20	03/04	MY20	04/05			
	Soybean Meal	Compound	Soybean Meal	Compound			
	Inclusion Rate	Feed	Inclusion Rate	Feed			
	(Percent)	Production	(Percent)	Production			
		(1,000M/T)		(1,000M/T)			
Layer	13-18	1,983	13-18	2,134			
Broiler 1/	18-23	1,813	18-23	2,054			
Swine	15-21	5,473	15-21	5,244			
Dairy Cattle	less than 5	1,670	less than 5	1,599			
Beef Cattle 2/	less than 2	3,043	less than 2	3,213			
Others	13-18	866	13-18	815			
Total (1,000MT)	2,052	14,848	2,116	15,059			

<sup>1/</sup> Include chicks

2/ Include Breeding Cattle

Source: America Soybean Association/Seoul

KOREA: Imports of Major Protein Meals (October/September)							
	MY 20	03/04	MY 200	04/05			
	Volume (MT)	Value (1,000\$)	Volume Value (MT) (1,000				
Soybean Meal	1,292,642	378,334	1,444,410	374,555			
Rapeseed Meal	308,864	52,448	292,267	44,560			
Fish Meal	40,778	31,316	48,260	36,681			
Bone Meal	805	517	199	561			
Cottonseed Meal	40,066	8,068	59,771	9,634			
Sunflower Seed Meal	243	26	7,806	1,103			
Copra Meal	387,372	44,062	402,878	45,716			
Palm Kernel Meal	348,820	30,604	412,599	29,684			
Corn Germ Meal	3,873	655	0	0			
Others	78,031	7,982	150,580	15,707			
Total	2,501,494	554,012	2,818,770	558,201			

Source: Korean Customs Service (KCS)

KOREA: Soybean Meal Imports for OctDec. by Origin							
			(Unit: M	Γ)			
MY2005/06	USA	Brazil	Argentina	India	China	Others	Total
Oct. 2005	475	133,869	20,250	606	2,722	161	158,083
Nov	320	81,458	59,277	339	2,107	120	143,621
Dec	588	83,730	38,543	1,069	857	119	124,906
Subtotal	1,383	299,057	118,070	2,014	5,686	400	426,610
MY2004/05 a/	19	311,103	54,175	7,990	6,381	771	380,439

a/ October – December 2004

KOREA: Feed Production by Animal-type (October/September, 1,000 MT)					
Animal Type MY 2003/04 MY 2004/05 MY 2005/06 a/					
Poultry	3,796	4,188	4,100		
Swine	5,473	5,244	5,300		
Cattle	4,713	4,812	4,900		
Others b/	866	815	800		
Total	14,848	15,059	15,100		

a/ FAS/ Seoul forecast

b/ include ducks, pet food, rabbit, horse, sheep, deer, quail etc.

Source: Korea Feed Association (KFA)

	KOREA: Animal Inventory					
		(1,000 Head,	1,000 Birds)			
Animal	Year	March	June	September	December	
Beef Cattle	2002	1,371	1,448	1,461	1,410	
	2003	1,337	1,423	1,464	1,480	
	2004	1,521	1,627	1,667	1,666	
	2005	1,654	1,757	1,825	1,819	
	2006	1,820 c/	1,927 c/	na	1,940c/	
Dairy Cattle	2002	548	545	543	544	
	2003	552	541	526	519	
	2004	517	509	503	497	
	2005	497	491	485	479	
	2006	478 c/	476 c/	na	467c/	
Swine	2002	8,719	8,791	9,033	8,974	
	2003	9,027	9,051	9,287	9,231	
	2004	9,189	9,017	9,046	8,908	
	2005	8,838	8,786	8,993	8,962	
	2006	9,029 c/	9,056 c/	na	9,070d/	
Layer a/	2002	50,471	49,589	50,299	50,191	
	2003	48,740	49,080	49,380	48,350	
	2004	47,910	48,060	49,090	48,000	
	2005	51,370	54,390	55,020	53,392	
	2006	53,420 c/	52,490 c/	na	52,180d/	
Broiler b/	2002	52,436	72,193	47,118	45,005	
	2003	47,490	66,756	42,451	44,803	
	2004	36,493	62,170	47,714	50,120	
	2005	52,740	88,137	65,830	50,422	
	2006	57,090 c/	na	na	67,330d/	

a/ excluding breeders.

b/ excluding multi-use broilers.

c/ Korea Rural Economic Institute Forecast.

d/ Annual Average by Korea Rural Economic Institute Forecast

Source: Korea Rural Economic Institute

KOREA: Applied Tariff Schedule for Oil Cake and Meals							
(Percent)							
Commodity	H.S. Code	2004	2005	2006			
Soybean Meal a/	2304.00.0000	3 (1.8)	3 (1.8)	3 (1.8)			
Peanut Meal	2305.00.0000	5	5	5			
Cottonseed Meal b/	2306.10.0000	5 (2)	5 (2)	5 (2)			
Linseed Meal	2306.20.0000	5	5	5			
Sunflower Seed Meal	2306.30.0000	5	5	5			
Rapeseed Meal	2306.40.0000	0	0	0			
Copra Meal c/	2306.50.0000	5	5(2)	5(2)			
Palm Kernel Meal d/	2306.60.0000	5	5(2)	5(2)			

a/ the figure in parentheses is the agreed rate under the 1993 bilateral agreement.

b/ the in-quota tariff rate is in parentheses. The duty is assessed on the first 263,000 MT of cottonseed meal. The out-of-quota tariff rate is five percent.

c/ the in-quota tariff rate is in parentheses. The duty is assessed on the first 707,000 MT of copra meal. The out-of-quota tariff rate is five percent

d/ the in-quota tariff rate is in parentheses. The applied duty is assessed on the first 707,000 MT of palm kernel meal. The out-of-quota tariff rate is five percent.

## **SECTION II. STATISTICAL TABLES OF OILS**

## Soybean Oil PS&D

## **PSD Table**

Country Korea, Republic of

Commodity	Oil, Soybean			(1000 MT)(PERCENT)			
	2004	Revised	2005	Estimate	2006	Forecast	UOM
USD	A Official [	Estimate[1	A Official [	Estimate[N/	Official [	Estimate[N	New]
Market Year Begin		10-2004		10-2005		10-2006	MM/YYYY
Crush	997	975	1025	1000	0	1000	(1000 MT)
Extr. Rate, 999.9999	0.178536	0.182564	0.178537	0.18	0	0.18	(PERCENT)
Beginning Stocks	12	20	15	50	16	57	(1000 MT)
Production	178	178	183	180	0	180	(1000 MT)
MY Imports	244	244	240	250	0	250	(1000 MT)
MY Imp. from U.S.	0	14	0	0	0	0	(1000 MT)
MY Imp. from the EC	0	0	0	0	0	0	(1000 MT)
TOTAL SUPPLY	434	442	438	480	16	487	(1000 MT)
MY Exports	4	4	5	5	0	5	(1000 MT)
MY Exp. to the EC	0	0	0	0	0	0	(1000 MT)
Industrial Dom. Consum	18	18	17	18	0	18	(1000 MT)
Food Use Dom. Consump	397	370	400	400	0	410	(1000 MT)
Feed Waste Dom. Consu	0	0	0	0	0	0	(1000 MT)
TOTAL Dom. Consumption	415	388	417	418	0	428	(1000 MT)
Ending Stocks	15	50	16	57	0	54	(1000 MT)
TOTAL DISTRIBUTION	434	442	438	480	0	487	(1000 MT)
Calendar Year Imports	0	256	0	250	0	250	(1000 MT)
Calendar Yr Imp. U.S.	0	17	0	0	0	0	(1000 MT)
Calendar Year Exports	0	4	0	5	0	5	(1000 MT)
Calndr Yr Exp. to U.S.	0	0	0	0	0	0	(1000 MT)

## **Soybean Oil Import Trade Matrix**

# **Import Trade Matrix**

**Commodit** Oil Soybean

Commodit Oil, Soybean							
Time Period	Oct/Sep	Units:	1000MT				
Imports for:	2003		2004				
U.S.	11	U.S.	14				
Others		Others					
Argentina	189	Argentina	202				
Brazil	9	Brazil	17				
Total for Others	198		219				
Others not Liste	2		11				
<b>Grand Total</b>	211	•	244				

## Palm Oil PS&D

## **PSD Table**

Country Korea, Republic of

Commodity Oil, Palm			(	1000 HA)	(1000 TRE	ES)(1000 MT)	
	2004	Revised	2005	Estimate	2006	Forecast	UOM
L	ISDA Official [	Estimate[NA	Official [	Estimate[N/	A Official [	Estimate[I	New]
Market Year Beg	in	10-2004		10-2005		10-2006	MM/YYYY
Area Planted	0	0	0	0	0	0	(1000 HA)
Area Harvested	0	0	0	0	0	0	(1000 HA)
Trees	0	0	0	0	0	0	(1000 TREES)
Beginning Stocks	5	10	7	10	7		(1000 MT)
Production	0	0	0	0	0		(1000 MT)
MY Imports	228	228	240	230	0		(1000 MT)
MY Imp. from U.S.	0	0	0	0	0		(1000 MT)
MY Imp. from the EC	0	0	0	0	0		(1000 MT)
TOTAL SUPPLY	233	238	247	240	7		(1000 MT)
MY Exports	0	0	0	0	0		(1000 MT)
MY Exp. to the EC	0	0	0	0	0		(1000 MT)
Industrial Dom. Consu		20	19	20	0		(1000 MT)
Food Use Dom. Consu	•	198	196	200	0		(1000 MT)
Feed Waste Consump		10	25	10	0		(1000 MT)
TOTAL Dom. Consum	ptic 226	228	240	230	0		(1000 MT)
Ending Stocks	7	10	7	10	0	10	(1000 MT)
TOTAL DISTRIBUTION	N 233	238	247	240	0		(1000 MT)
Calendar Year Imports	0	235	0	230	0	235	(1000 MT)
Calendar Yr Imp. U.S.	0	0	0	0	0		(1000 MT)
Calendar Year Exports	0	0	0	0	0		(1000 MT)
Calndr Yr Exp. to U.S.	0	0	0	0	0	0	(1000 MT)

## **Palm Oil Import Trade Matrix**

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# **Import Trade Matrix**

Country Korea, Republic of

Commodit Oil, Palm								
Time Period	Oct/Sep	Units:	1000MT					
Imports for:	2003		2004					
U.S.	0	U.S.	0					
Others		Others						
Malaysia	207	Malaysia	224					
Indonesia	2	Indonesia	2					
Total for Others			226					
Others not Liste	4		2					

Source: Korea Customs Service (KCS)

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**Grand Total** 

KOREA: Vegetable Oil Production 1/						
	(Metric Ton)					
Commodities	MY 2002/03	MY 2003/04	MY 2004/05			
Soybean Oil	217,301	194,294	177,903			
Corn Oil	48,041	46,077	43,299			
Sesame Oil	25,989	21,774	22,413			
Rice Bran Oil	10,000	10,000	10,000			
Rapeseed Oil	431	402	640			
Perilla Oil	12,610	17,470	17,694			
Total	315,378	290,017	271,949			

1/ FAS/Seoul estimates

Source: Agricultural Affairs, U.S. Embassy, Seoul

KOREA: Soybean Oil Production					
	(Metri	c Ton)			
Month	MY 03/04	MY 04/05	MY 05/06		
October	17,495	12,562	12,000		
November	20,711	16,026	13,700		
December	21,765	14,173	12,000		
January	15,156	14097	Na		
February	17,089	14810	Na		
March	17,372	14819	Na		
April	16,538	14536	Na		
May	13,423	16208	Na		
June	14,180	14672	Na		
July	15,099	15000	Na		
August	13,507	17000	Na		
September	11,959	14000	Na		
Total	194,294	177,903	37,700		
Extraction Rate	17.84%	18.24%	18.38%		

Source: Korea Soybean Processing Association

KOREA: The Supply of Edible Oils (Metric Ton)					
Commodity	MY 2002/03	MY 2003/04	MY 2004/05		
Soybean Oil	374,608	405,527	421,550		
Palm Oil	207,704	212,799	228,351		
Corn Oil	55,437	55,732	57,096		
Rapeseed Oil	17,562	19,455	20,341		
Coconut Oil	43,616	52,694	55,882		
Cottonseed Oil	10,385	7,239	9,526		
Sesame Oil	26,441	22,232	23,218		
Rice Bran Oil	13,185	13,435	13,149		
Perilla Oil	12,745	17,959	18,325		
Fish Oil	6,658	9,288	10,104		
Sunflower Oil	1,139	1,076	1,568		
Total	769,479	817,436	859,110		

Source: Agricultural Affairs, U.S. Embassy, Seoul

KOREA: Fats And Oils Imports					
	(MT &	US\$ 1,000, Oct.	/Sep.)		
Commodity	MY 20	003/04	MY 2004/05		
	Volume	Value	Volume	Value	
Palm Oil	212,799	107,370	228,351	100,946	
Tallow	64,664	30,384	80,322	34,855	
Coconut Oil	52,694	32,011	55,882	38,253	
Cottonseed Oil	7,239	4,748	9,526	5,815	
Fish Oil	8,288	9,864	9,104	10,895	
Soy Oil	211,233	138,287	243,647	137,659	
Corn Oil	12,130	9,655	13,797	10,364	
Rapeseed Oil	19,052	13,398	19,701	12,696	
Palm Kernel Oil	7,467	4,607	7,146	5,213	
Tung Oil	5,041	7,306	4,242	7,437	
Rice Bran Oil	3,435	2,906	3,149	2,697	
Castor Oil	6,496	8,805	6,230	9,213	
Linseed Oil	6,252	5,123	6,085	7,271	
Sunflower Oil	1,076	1,525	1,568	2,461	
Safflower Oil	104	306	165	368	
Olive Oil	11,893	42,051	26,630	98,914	
Jojoba Oil	23	369	26	293	
Peanut Oil	6	13	65	128	
Sesame Oil	458	834	805	1,455	
Perilla Oil	490	556	631	615	
Camellia Oil	9	57	15	94	
Other Oil	1,872	5,987	5,868	17,383	
Total	632,721	426,162	722,955	505,025	

KOREA: Soybean Oil Imports for OctDec. by Origin						
	(Unit: MT)					
MY2005/06	USA	Argentina	Brazil	Others	Total	
Oct. 2005	19	23,458	2,313	3	25,793	
Nov	71	19,820	2,543	4	22,438	
Dec	18	19,410	2,040	21	21,489	
Subtotal	108	62,688	6,896	28	69,720	
MY2004/05 a/	81	53,589	3,571	7	57,248	

a/ October - December 2004

Source: Korea Customs Service (KCS)

KOREA: Applied Tariff Schedule For Fats And Oils				
(Percent)				
Commodity	H.S. Code	General	2005	2006
		Rate		
Lard	1501.00.10XX	3	3	3
Beef Tallow	1502.00.10XX	2	2	2
Other Tallow	1502.00.90XX	3	3	3
Fish Oil	1504.XX.XXXX	3	3	3
Soybean Oil a/	1507.XX.XXXX	8	5.4	5.4
Peanut Oil a/	1508.XX.XXXX	40	27	27
Olive Oil	1509.XX.XXXX	8	8	8
Palm Crude Oil	1511.10.0000	3	3	3
Palm Oil	1511.90.XXXX	2	2	2
Sunflower Oil	1512.1X.XXXX	10	10	10
Safflower Oil	1512.1X.XXXX	8	8	8
Cotton Seed Oil a/	1512.2X.XXXX	8	5.4	5.4
Coconut Oil	1513.1X.XXXX	3	3	3
Palm Kernel Oil	1513.2X.XXXX	8	5	5
Rapeseed Oil, Crude	1514.10.1000	10	10	8 b/
Rapeseed Oil, Refined	1514.19.1000	30	30	10 c/
Linseed Oil	1515.1X.XXXX	8	8	8
Corn Oil	1515.2X.XXXX	8	8	8
Castor Oil	1515.30.XXXX	8	8	8
Tung Oil	1515.40.XXXX	8	8	8
Sesame Oil d/	1515.50.XXXX	40	40	40

a/ Per Country Schedule.

Source: Korea Customs Research Institute, Tariff Schedules for Korea

b/ In-Quota for whole imported quantities.

c/ In-Quota for whole imported quantities under HS Code 1514.19.1000, 1514.19.9000, 1514.19.9000, 1514.99.1010 and 1514.99.9000.

d/ In-Quota tariff rate. Quota is 668 MT. The out-of-quota tariff rate is 630 percent or 12,060 Won/Kg, whichever is greater.